## CERTIFICATE OF MAILING

- TAW

I hereby certify that this correspondence is being mailed in an envelope by First Class mail to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Candice P. Dysart

(Typed or printed name of person mailing correspondence)

(Signature of person mailing correspondence)

U.S. Serial Number: 10/618,119

Filing Date: July 11, 2003

Title: Highly Efficient Method of Mixing Dissimilar Fluids Using Mechanically Induced

Cavitation

Our Reference Number: H14

H147 1020.1

Transmittal Form
Fee Transmittal
First Supplemental Information Disclosure Statement
Form PTO/SB/08A
2 References
Return Postcard

ANG 2 4 2005  ANG 2 4 2005  PRADE MANUTAL FORM  (to be used for all correspondence after initial)		Filing Date First Named Inventor Art Unit Examiner Name	Patent and Tilection of info 10/618,115 July 11, 20 Kelly Huds 1712 Metzmaier	ademark Office ormation unless	PTO/SB/21 (09-04) Ise through 07/31/2006. OMB 0651-0031 e; U.S. DEPARTMENT OF COMMERCE s it displays a valid OMB control number.
Total Number of Pages in This Submission	<u> </u>	Attorney Docket Number	H147 1020	.2	
	ENCL	OSURES (Check all	that apply	)	
Fee Transmittal Form  Fee Attached  Amendment/Reply  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Reply to Missing Parts/ Incomplete Application  Reply to Missing Parts  under 37 CFR 1.52 or 1.53		Drawing(s)  Licensing-related Papers  Petition  Petition to Convert to a  Provisional Application  Power of Attorney, Revocation  Change of Correspondence A  Ferminal Disclaimer  Request for Refund  CD, Number of CD(s)  Landscape Table on CD  ks	ddress	Apr (Apr (Apr )	peal Communication to Board Appeals and Interferences peal Communication to TC peal Notice, Brief, Reply Brief) prietary Information tus Letter per Enclosure(s) (please Identify pow): eferences, Return Postcard

	CERTIFICATE OF TRA	NSMISSION/MA	II ING	
Date	8/19/05	Reg. No.	39,540	
Printed name	Jeffery B. Arnold			
Signature	(Add 3. 0)			
Firm Name	WOMBLE CARLYLE SANDRIDGE & RICE, PLLC			

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

## I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with

sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or printed name

Candice P. Dysart

Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (12-04v2)

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Parameter adjustion Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Complete if Known Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Fees pursuant to the Consolida	sted Annman		(818)			iipiete ii		
FEE TRANSMITTAL			Application Num	ber 10	/618,119			
			┺┟	Filing Date	Ju	July 11, 2003		
For	FY 2	005	L	First Named Inve	entor Ke	lly Hudso	n	
Applicant claims small		Examiner Name	Me	etzmaier, l	Daniel S.			
	<del></del>			Art Unit	17	12		
TOTAL AMOUNT OF PAY	MENT (\$	0		Attorney Docket	No. H1	47 1020.2	2 (30727.000	9.0)
METHOD OF PAYMENT	(check a	ll that apply)						
Check Credit C	Card	Money Order	None	e Other (pl	lease identii	fy):		
Deposit Account De		•		Deposit Acc		• • • • • • • • • • • • • • • • • • • •	artvie Sandridge	& Rice, PLLC
For the above-identif	-							
Charge fee(s)	-							the filing fee
		e(s) or underpayment	ts of fee	<u>ا</u> ا	any overpa			_
under 37 CFR WARNING: Information on this Information and authorization	form may b	ecome public. Credit o	card info		• •	•	orm. Provide cr	edit card
FEE CALCULATION	<del></del>	*	<del></del>					
1. BASIC FILING, SEAR	CH, AND	EXAMINATION F	EES					
:	FILING	FEES Small Entity	SEAR	CH FEES	EXAMIN	IATION F		
Application Type	Fee (\$)		Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small En		es Paid (\$)
Utility	300	150	500	250	200	100		
Design	200	100	100	50	130	65		
Plant	200	100	300	150	160	80		
Reissue	300	150	500	250	600	300		<del> </del>
Provisional	200	100	0	0	0	0		
Fee Description Each claim over 20 (i Each independent clai	2. EXCESS CLAIM FEES Small Entity							
Multiple dependent cl		- 4	_	D 11/4		36		
<u>Total Claims</u> - 20 or HP =	Extra Clai		<u>Fee</u> =	Paid (\$) 0		<u>Multi</u> Fee	ple Depender	e Paid (\$)
HP = highest number of total						0		0
Indep. Claims	Extra Clai		<u>Fee</u>	Paid (\$)				
3 or HP =x =0 HP = highest number of independent claims paid for, if greater than 3.  3. APPLICATION SIZE FEE								
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)								
100 = / 50 = (round up to a whole number) x 0 = 0  4. OTHER FEE(S) Fees Paid (\$)								
Non-English Specification, \$130 fee (no small entity discount)								
Other (e.g., late filing surcharge): 0								
SUBMITTED BY	$\overline{}$	2 1/	<u> </u>					
Signature	Joffen	50		Registration No. Attomey/Agent) 3	9,540	Те	lephone (404)	879-2433
Name (Print/Type) Jeffery B.	Arnold	<del>ラブ イ</del>	10	morney/Agent)			ite August 19,	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

					<b>PATENTS</b>
2 4 2005		THE UNITED STATES PATENT	AND	TRADEMAR	K OFFICE
MADEMAR	plication	on of:	)		
			)		
		Kelly Hudson et al.	)		
			)		
Serial 1	No:	10/618,119	)	Art Unit:	1712
			)	·	
Filed:		July 11, 2003	)	Examiner:	Metzmaier, Daniel S
		•	)		•
		LY EFFICIENT METHOD OF	)	Conf. No.:	4101
		NG DISSIMILAR FLUIDS USING	)		
	MECH	IANICALLY INDUCED	)		
	CAVI	<b>FATION</b>	)		

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The citation of information on the attached Form PTO/SB/08A, "Information Disclosure Statement By Applicant" is made pursuant to 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. §1.98(d), inasmuch as this application relies on prior application Serial No. 09/747,469, filed December 20, 2000, which is now Patent No. 6,627,784, which relies on prior application Serial No. 60/204,838, filed on May 17, 2000, for an earlier filing date under 35 U.S.C. §120, no copy of any patent, publication or other information previously cited by or submitted to the Office in such prior application is being provided herewith.

Applicant advises that according to a DataBase, Japanese reference 48-61704 (Cite No. 3 on attached Form PTO/SB/O8A) corresponds to U.S. No. Patent 3,873,414, which was previously cited in this application. A copy of the Japan reference is enclosed, however, a translated copy of the reference is not.

> I hereby certify that this correspondence is being deposited with the United States Postal Service in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Application No. 10/618,119

Filed: July 11, 2003

Page 2 of 2

The Examiner is specifically requested not to rely solely on the information submitted

herein. On the contrary, the Examiner is requested to conduct an independent and thorough

review of the information, and to form independent opinions as to their significance.

It is respectfully requested that the Examiner initial and return copies of the enclosed

Form PTO/SB/08A and to indicate in the official file wrapper of the above-identified patent

application that each item of the cited information has been considered.

The citation of this information does not constitute an admission that any of the materials

are available as a reference or of priority, or a waiver of any right applicant may have under

applicable statues, Rules of Practice in patent cases, or otherwise.

Pursuant to 37 C.F.R. §1.97(b)(3) Applicants respectfully assert that no fee is due. The

Commissioner is hereby authorized to charge any additional fees which may be required, or

credit any overpayment to deposit account no. 09-0528.

Respectfully submitted,

Jeffery B. Arnold

Reg. No. 39,540

Womble Carlyle Sandridge & Rice, PLLC

P.O. Box 7037

Atlanta, GA 30357-0037

(404) 879-2433 (Telephone)

(404) 879-2933 (Facsimile)

Docket No.: H147 1020.2 (30727.0009.0)

- 2 -

PTO/SB/08A (08-00)

Approved for use through 10/31/2002 OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

der the Paperwork Seduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449 ARDEMARY

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary

	-	
	1 6 4	
theet   1	1 01 1	

Complete if Known					
Application Number	10/618,119				
Filing Date	07/11/03				
First Named Inventor	Kelly Hudson et al.				
Group Art Unit	1712				
Examiner Name Metzmaier, Daniel S.					
Attorney Docket No.	H147 1020.2				

U.S. PATENT DOCUMENTS						
		U.S. Patent			Date of Publication of	Pages, Columns, Lines, Where
Examiner	Cite No.1		Kind Code <sup>2</sup>	Name of Patentee or Applicant of Cited Document	Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Initials	No.'	Number	(if known)		MM-DD-YYYY	rigures Appear
	1	2,907,455		Sasaki	10/6/1959	
-						
		•				

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.1	Office <sup>3</sup>	Foreign Patent   Number <sup>4</sup>	Document Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	76
	2	GB	2,176,535		Rolls-Royce Limited	12/31/1986		
	3	JР	48-61704		L'Air Liquide, Societe Anonyme Pour l'Etude et Exploitation des Procedes George Claude	08/29/1973		
				ļ <u>.</u>				
								44
	ļ							+
								+-
	-			<del></del>				
	<del> </del>							+

	r		
Examiner		0.4.	
		Date	
Signature		Considered	
_		Constacted	

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.